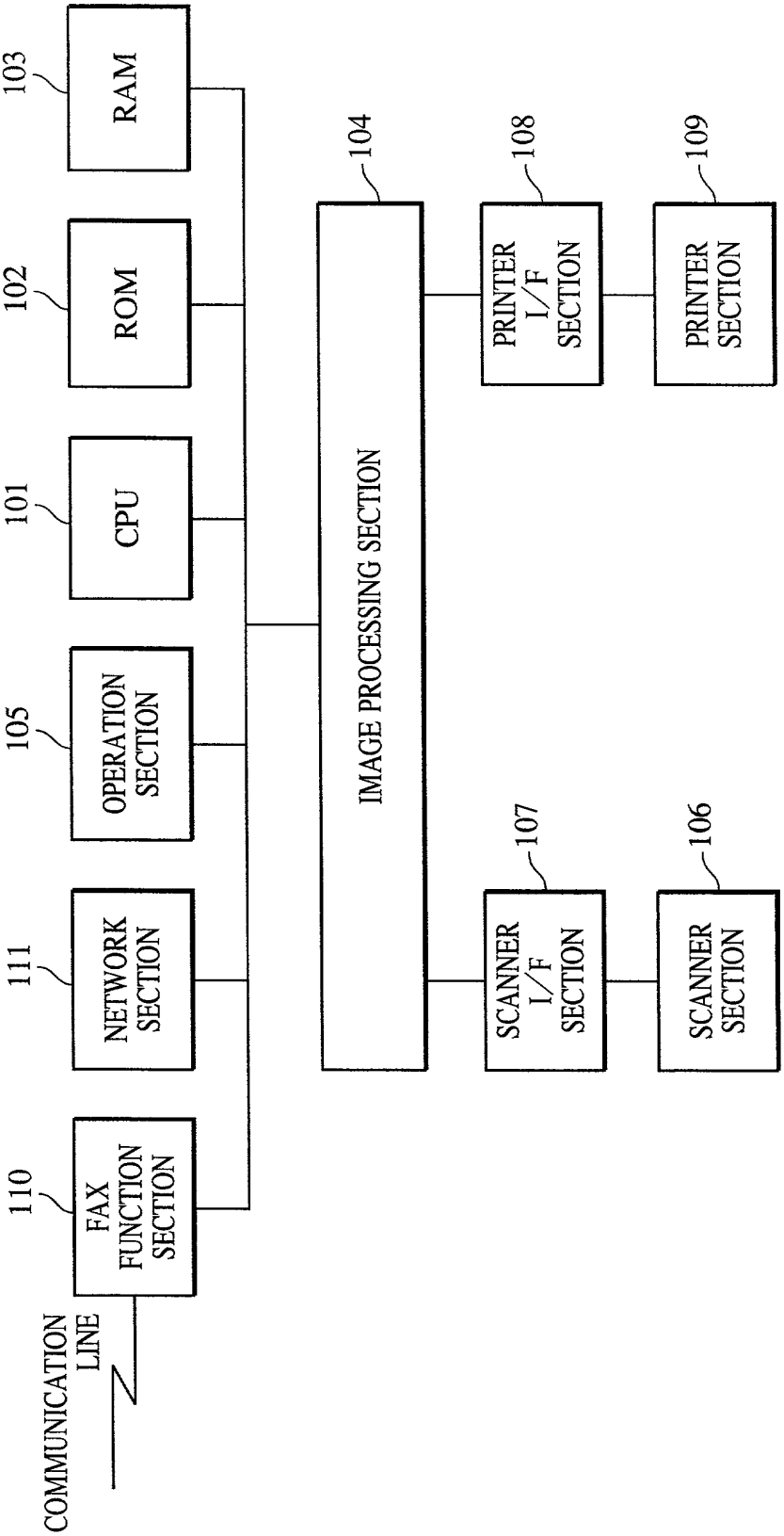
103
RAM
102
ROM
101
CPU
105
OPERATION SECTION
111
NETWORK SECTION
110
FAX FUNCTION SECTION
COMMUNICATION LINE
104
IMAGE PROCESSING SECTION
108
PRINTER I/F SECTION
109
PRINTER SECTION
107
SCANNER I/F SECTION
106
SCANNER SECTION

FIG. 1

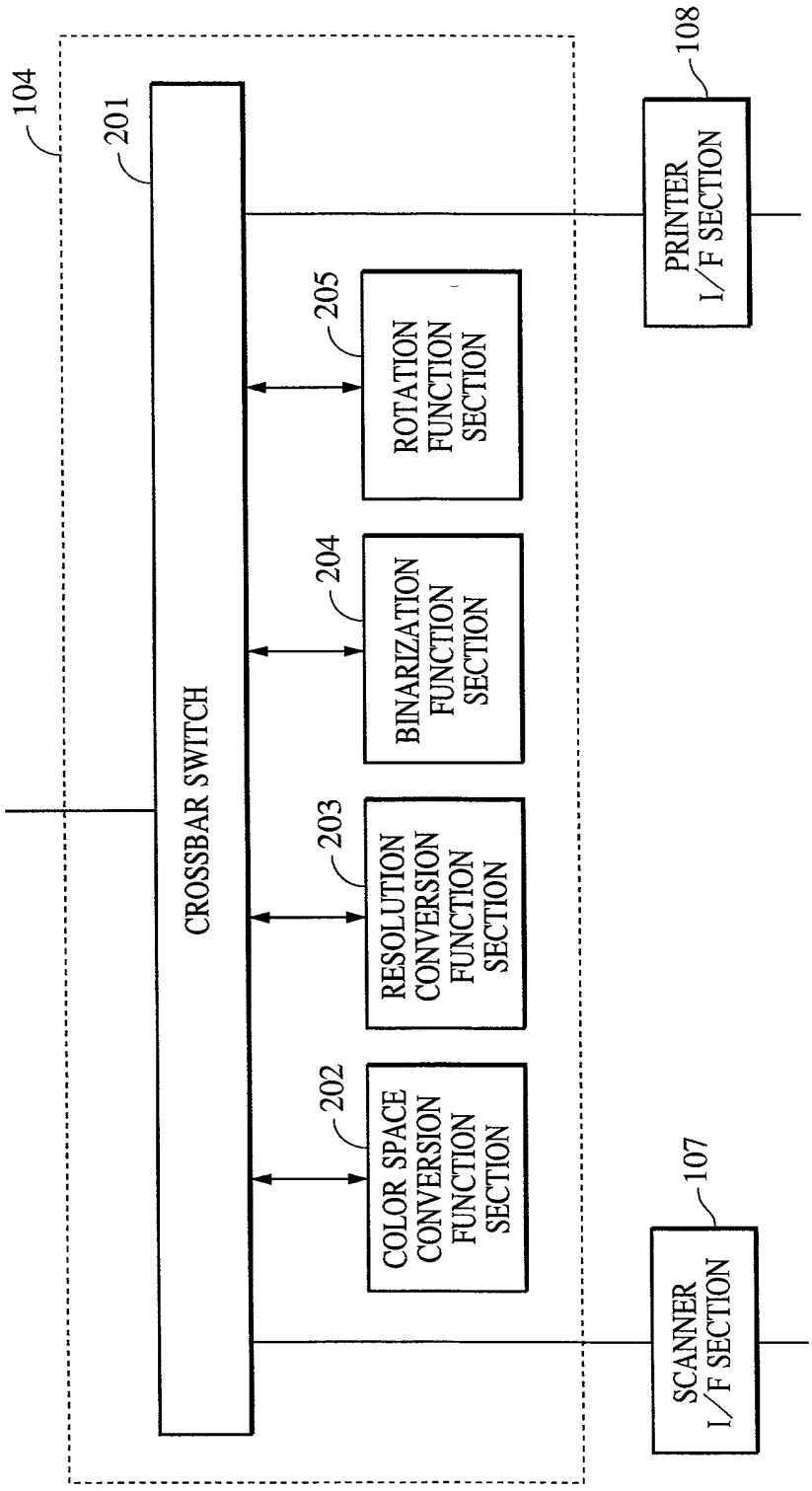
104
201
CROSSBAR SWITCH
202
COLOR SPACE CONVERSION FUNCTION SECTION
203
RESOLUTION CONVERSION FUNCTION SECTION
204
BINARIZATION FUNCTION SECTION
205
ROTATION FUNCTION SECTION
107
SCANNER I/F SECTION
108
PRINTER I/F SECTION

FIG. 2

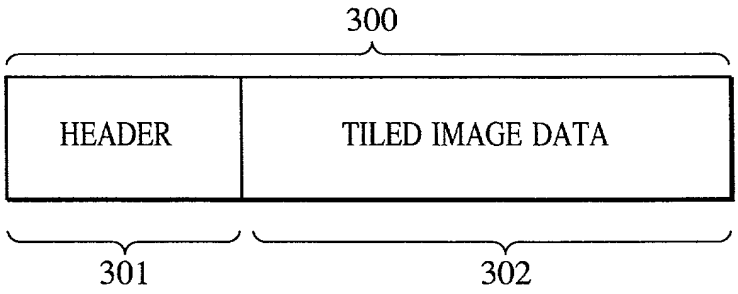

FIG. 3

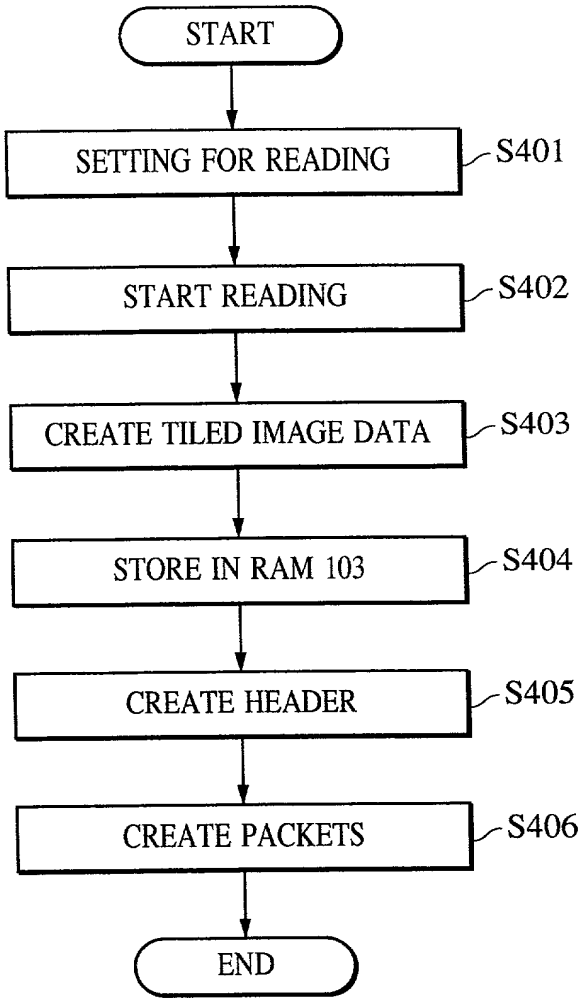
START
SETTING FOR READING
S401
START READING
S402
CREATE TILED IMAGE DATA
S403
STORE IN RAM 103
S404
CREATE HEADER
S405
CREATE PACKETS
S406
END

FIG. 4

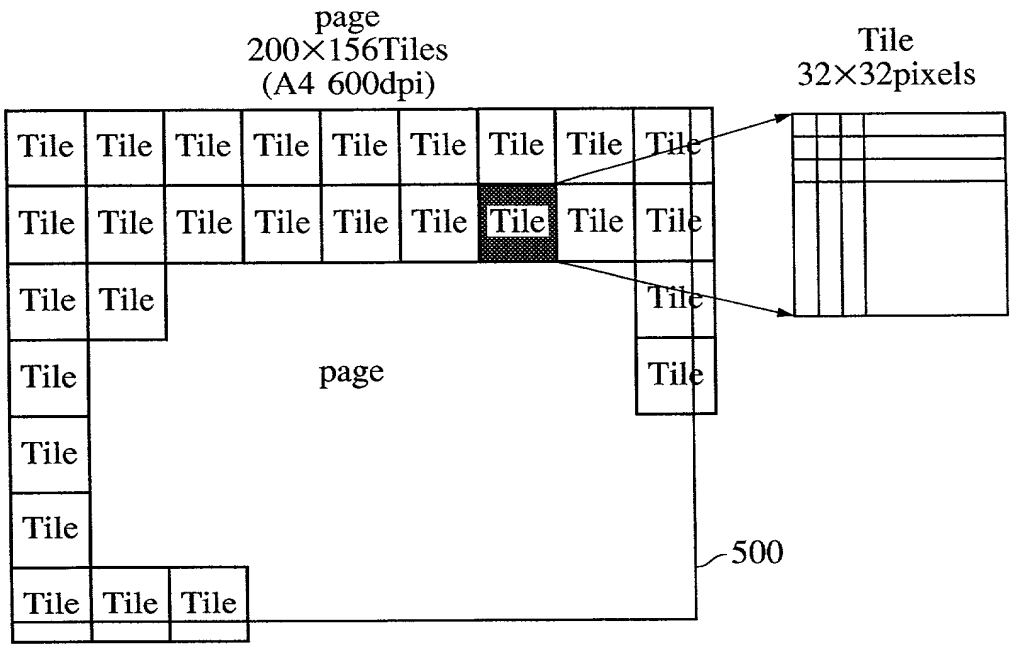
page
200×156Tiles
(A4 600dpi)
Tile
32×32pixels
Tile
page
500
NUMBER OF TILES IN ONE PAGE : 220×156 = 34,320

FIG. 5

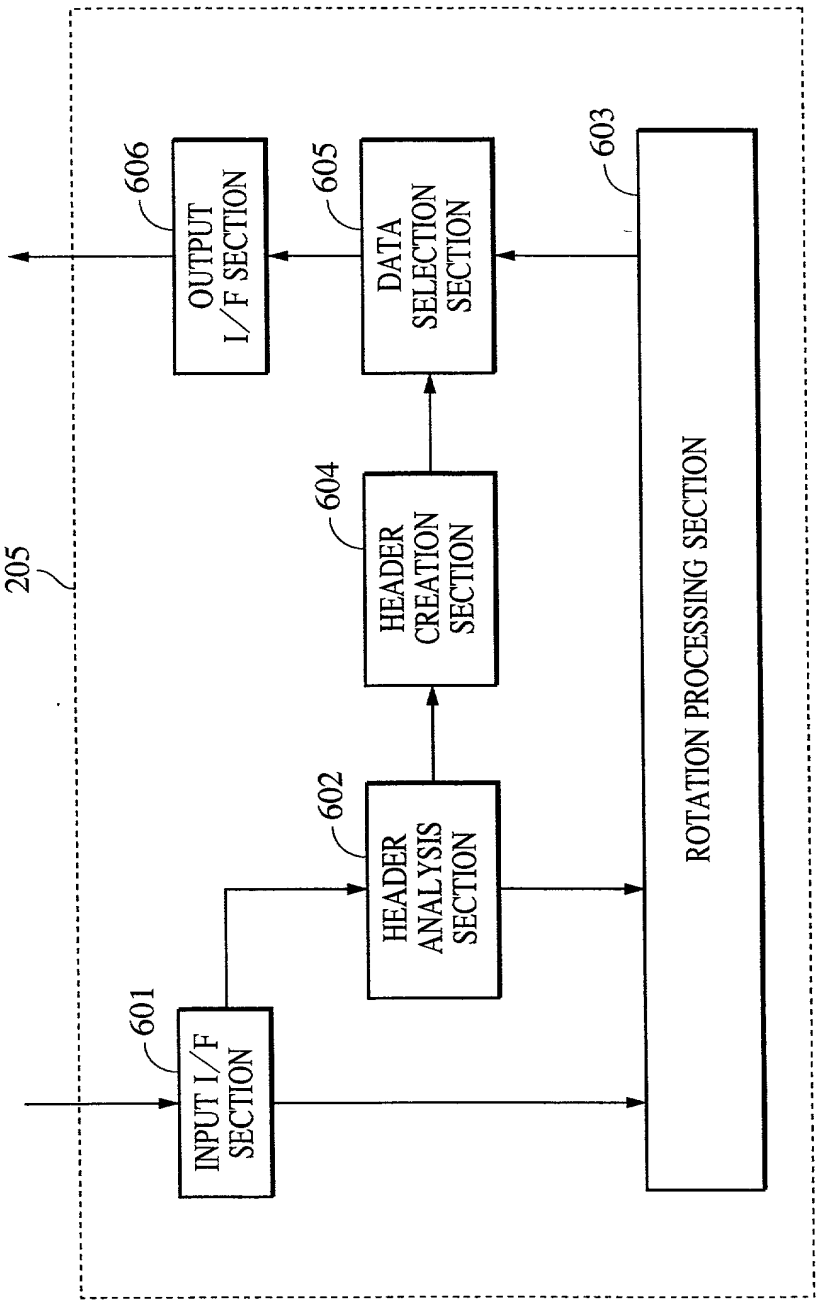
205
INPUT I/F SECTION
601
HEADER ANALYSIS SECTION
602
HEADER CREATION SECTION
604
DATA SELECTION SECTION
605
OUTPUT I/F SECTION
606
ROTATION PROCESSING SECTION
603

FIG. 6

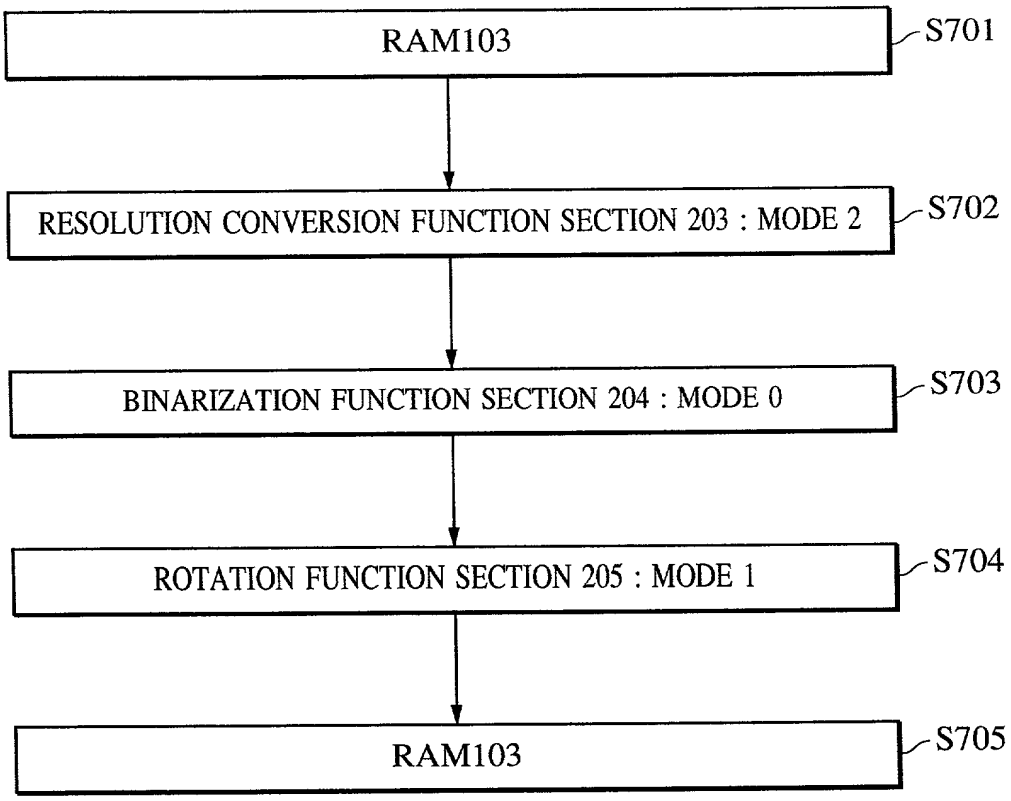
RAM103
S701
RESOLUTION CONVERSION FUNCTION SECTION 203 : MODE 2
S702
BINARIZATION FUNCTION SECTION 204 : MODE 0
S703
ROTATION FUNCTION SECTION 205 : MODE 1
S704
RAM103
S705

FIG. 7

TOSHIBA-S72E58JP

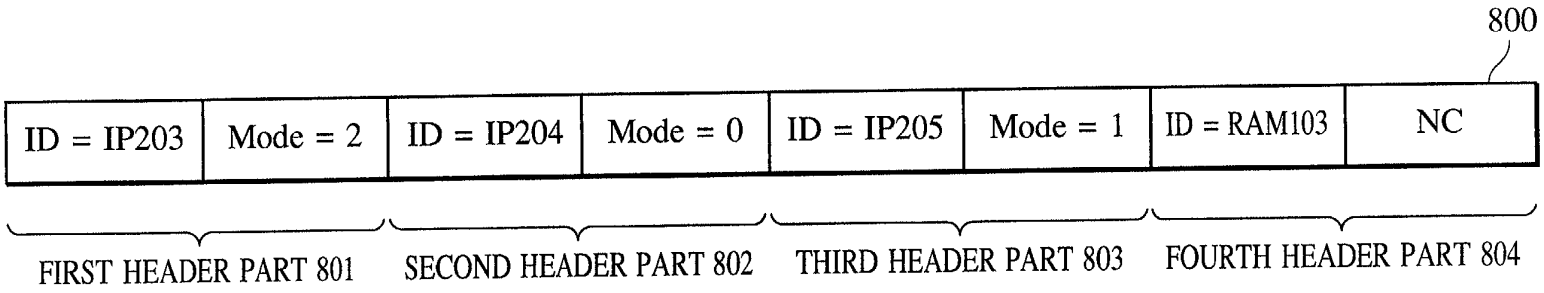

FIG. 8

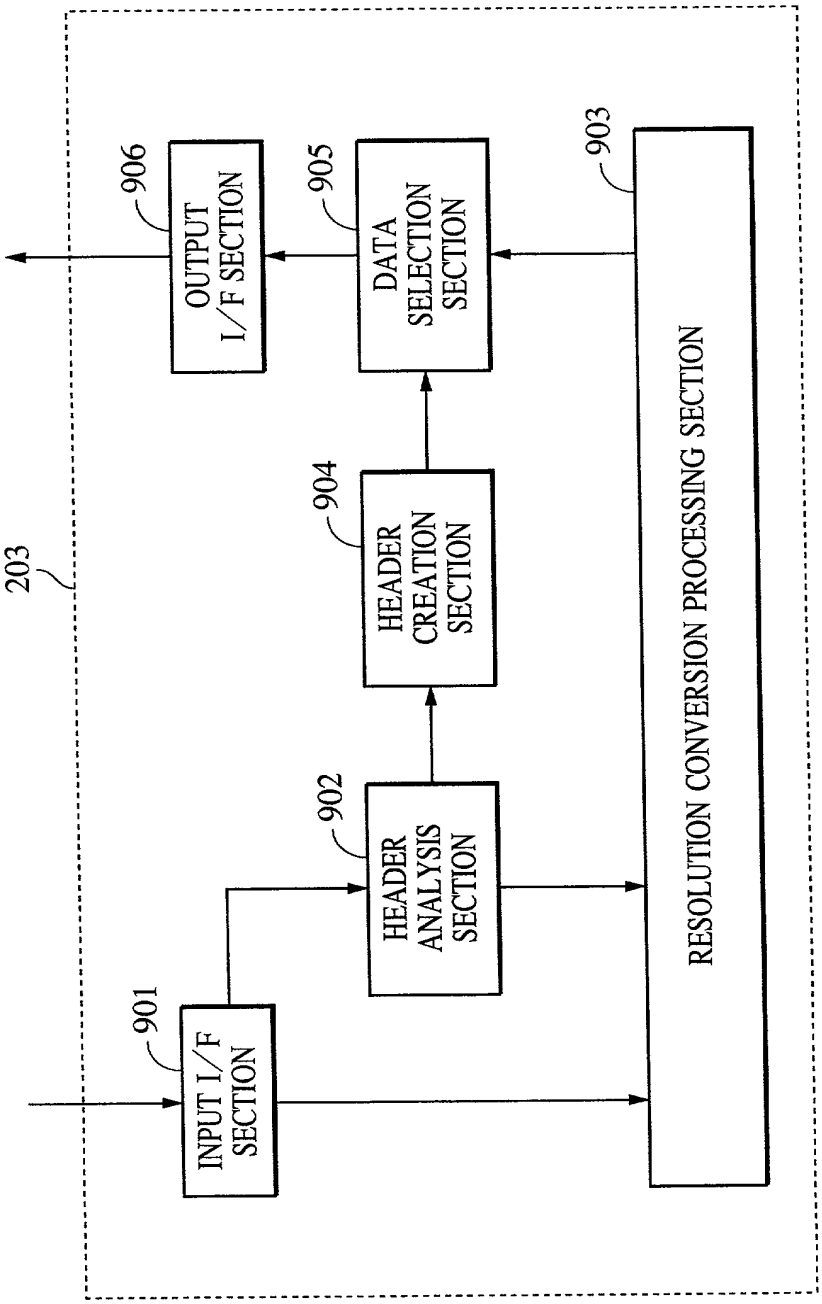
203
901
INPUT I/F SECTION
902
HEADER ANALYSIS SECTION
904
HEADER CREATION SECTION
905
DATA SELECTION SECTION
906
OUTPUT I/F SECTION
903
RESOLUTION CONVERSION PROCESSING SECTION

FIG. 9

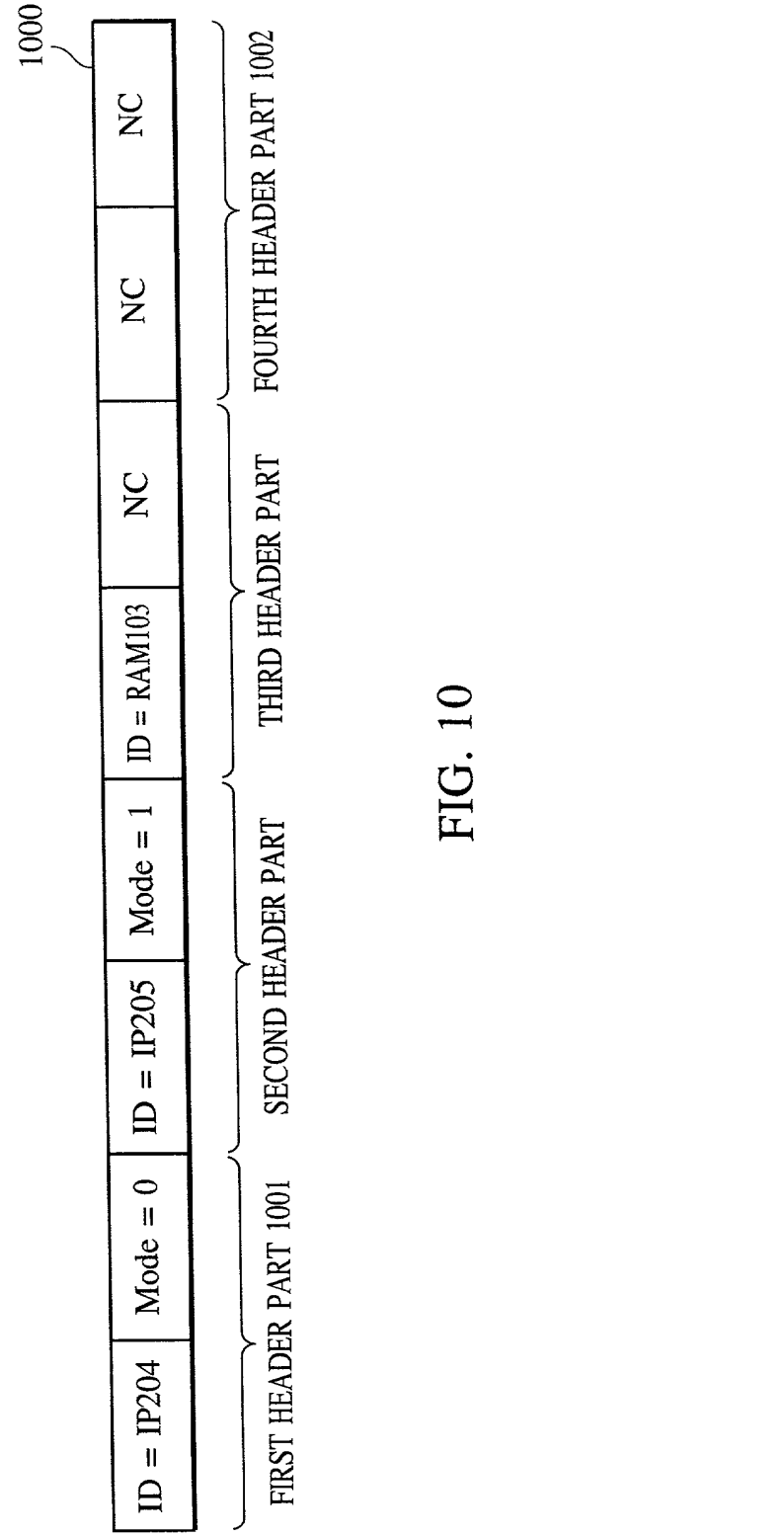
1000
ID = IP204
Mode = 0
ID = IP205
Mode = 1
ID = RAM103
NC
NC
NC
FIRST HEADER PART 1001
SECOND HEADER PART
THIRD HEADER PART
FOURTH HEADER PART 1002

FIG. 10

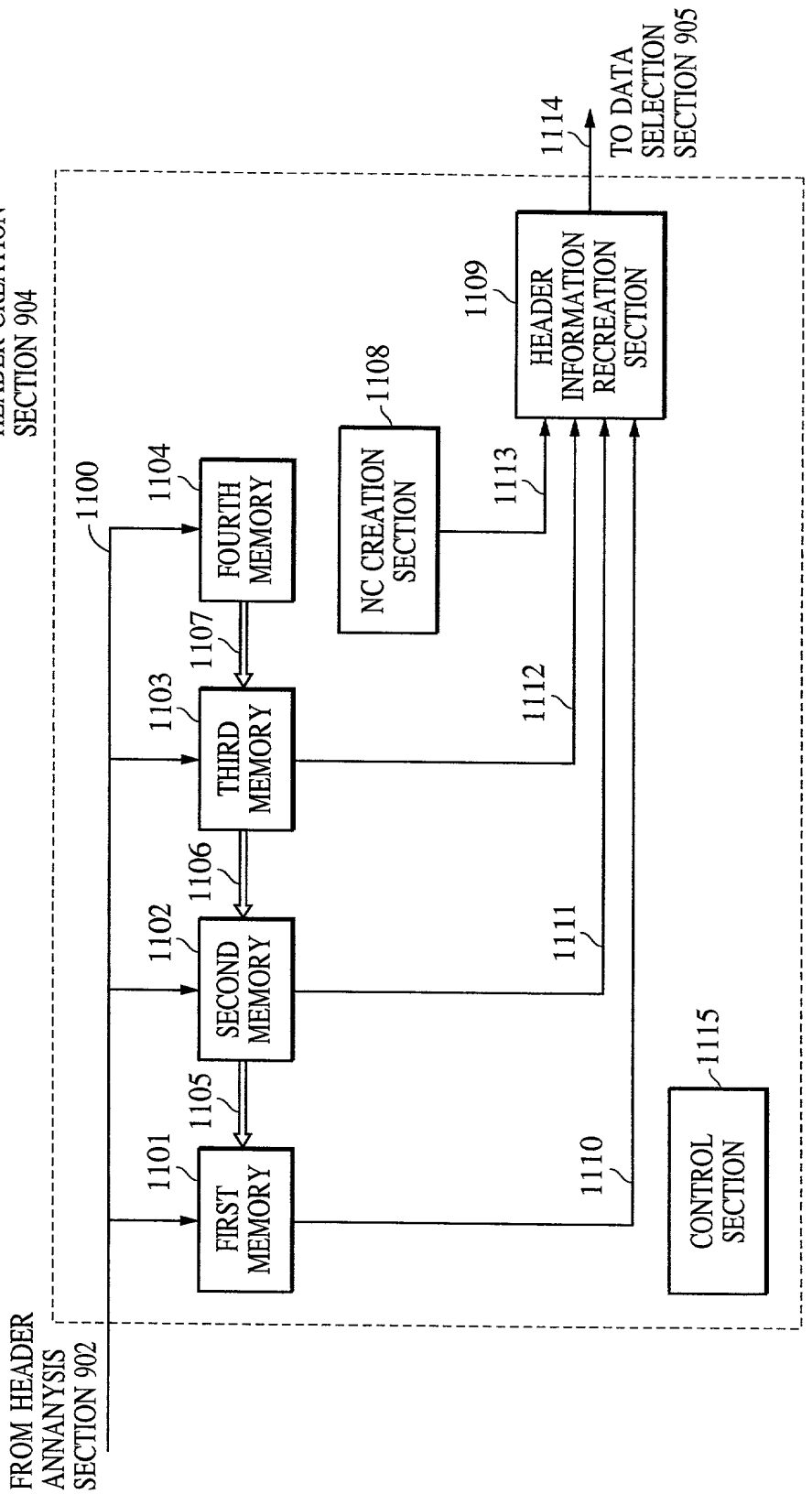
HEADER CREATION SECTION 904
FROM HEADER ANNANYSIS SECTION 902
1100
1101
FIRST MEMORY
1102
SECOND MEMORY
1103
THIRD MEMORY
1104
FOURTH MEMORY
1105
1106
1107
NC CREATION SECTION
1108
HEADER INFORMATION RECREATION SECTION
1109
CONTROL SECTION
1110
1111
1112
1113
1114
1115
TO DATA SELECTION SECTION 905

FIG. 11

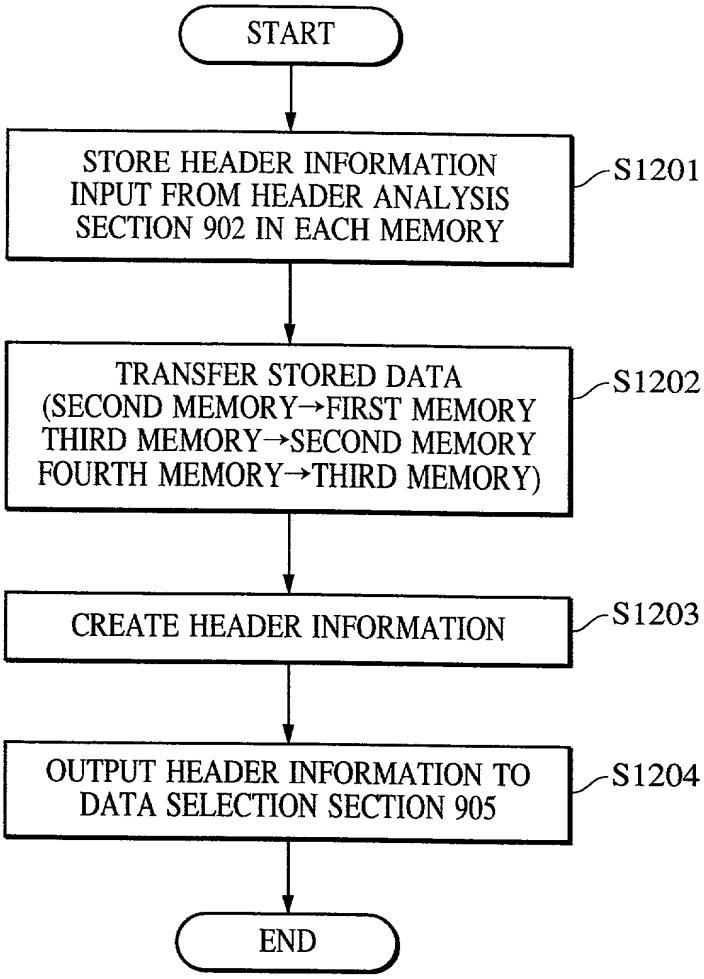
START
STORE HEADER INFORMATION INPUT FROM HEADER ANALYSIS SECTION 902 IN EACH MEMORY
S1201
TRANSFER STORED DATA (SECOND MEMORY→FIRST MEMORY THIRD MEMORY→SECOND MEMORY FOURTH MEMORY→THIRD MEMORY)
S1202
CREATE HEADER INFORMATION
S1203
OUTPUT HEADER INFORMATION TO DATA SELECTION SECTION 905
S1204
END

FIG. 12

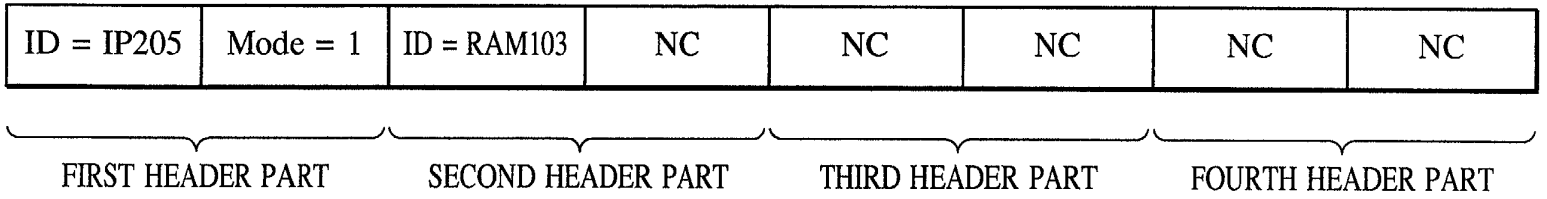
ID = IP205
Mode = 1
ID = RAM103
NC
NC
NC
NC
NC
FIRST HEADER PART
SECOND HEADER PART
THIRD HEADER PART
FOURTH HEADER PART

FIG. 13

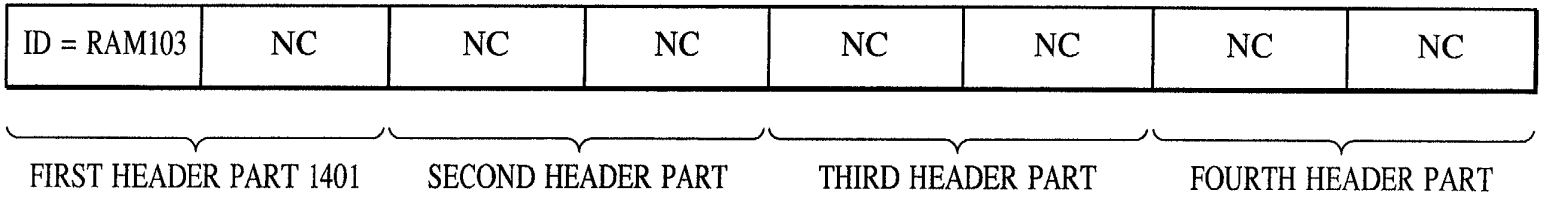
ID = RAM103
NC
NC
NC
NC
NC
NC
NC
FIRST HEADER PART 1401
SECOND HEADER PART
THIRD HEADER PART
FOURTH HEADER PART

FIG. 14

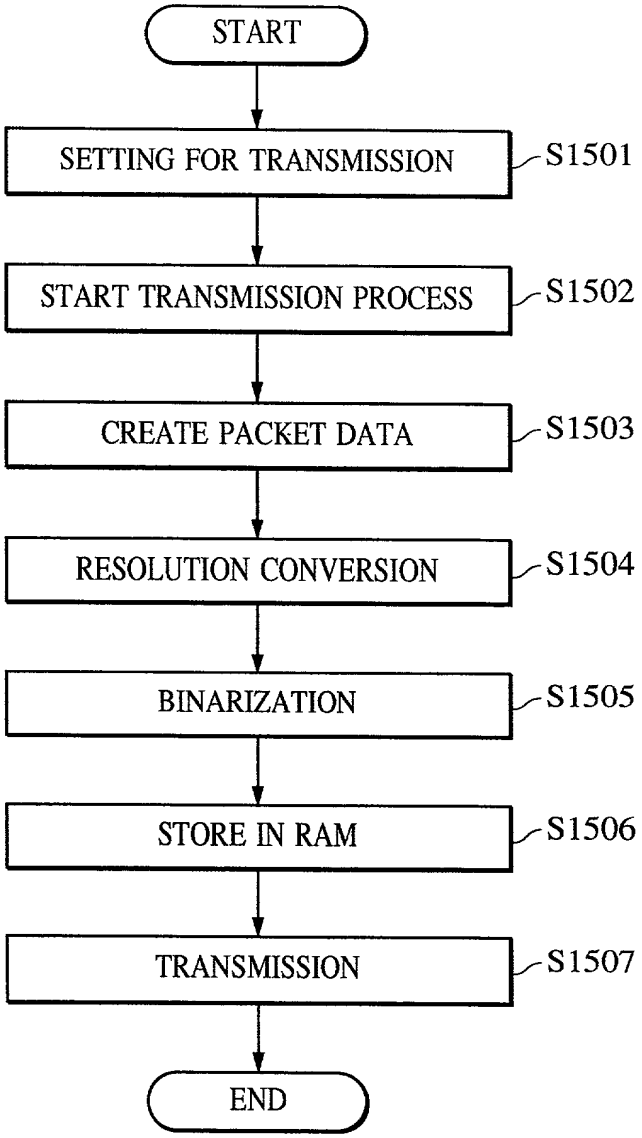
START
SETTING FOR TRANSMISSION
S1501
START TRANSMISSION PROCESS
S1502
CREATE PACKET DATA
S1503
RESOLUTION CONVERSION
S1504
BINARIZATION
S1505
STORE IN RAM
S1506
TRANSMISSION
S1507
END

FIG. 15

Patent Drawing

TOUTCH PANEL OPERATION	SELECTION MODE	IP FUNCTION USED IN IMAGE PROCESSING	IMAGE PROCESSING CONTENTS	IMAGE PROCESSING MODE
RESOLUTION	STANDARD	RESOLUTION CONVERSION FUNCTION SECTION 203	100×100dpi	mode 0
	FINE		100×200dpi	mode 1
	SUPERFINE		100×400dpi	mode 2
TYPE OF DOCUMENT	CHARACTER	BINARIZATION FUNCTION SECTION 204	SIMPLE BINARIZATION	mode 0
	PHOTOGRAPH		ERROR DIFFUSION METHOD	mode 1

FIG. 16

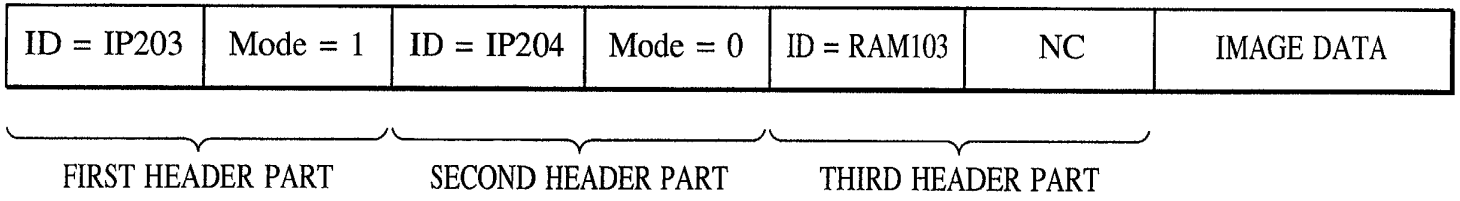

FIG. 17

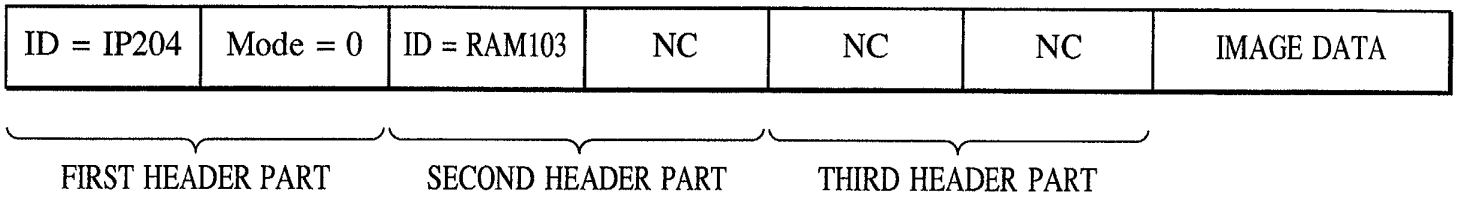
ID = IP204
Mode = 0
ID = RAM103
NC
NC
NC
IMAGE DATA
FIRST HEADER PART
SECOND HEADER PART
THIRD HEADER PART

FIG. 18

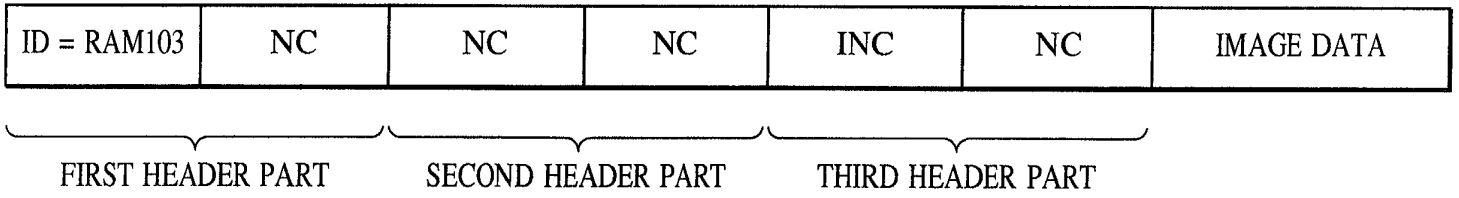
ID = RAM103
NC
NC
NC
INC
NC
IMAGE DATA
FIRST HEADER PART
SECOND HEADER PART
THIRD HEADER PART

FIG. 19